<u>Table 2A</u>

Growth Rates for Intelsat Investment Amount, GDP and Population (Countries at or Near the Intelsat Minimum Share Throughout Their Membership)

COUNTRY	Intelsat Investment	GDP Growth	Population Growth
AFGHAN	Amount Growth		
ARMENIA	4.50%	-7.11%	1.13%
AZERBAJ	-21.92%	-54.80%	
BARBADOS	-3.28%	-27.06%	
BENIN	3.74%	3.20%	the second of th
the state of the state of the state of	4.27%	-9.89%	[6] A. A. A. A. A. A. A. T. T. T. T. T.
BHUTAN	-2.14%	2.04%	-4.90%
BOSNIA HERZ	-4.69%		0.46%
BOTSWANA	0.52%	9.35%	3.31%
BULGARIA	0.00%	-7.07%	
BURKNA FA	4.71%	1.51%	2.60%
CAPE VERDE	0.53%	6.92%	1.81%
CENT AFR REP	3.80%	1.45%	2.39%
CHAD	3.74%	0.07%	2.27%
CONGO, REP	3.74%	1.41%	2.96%
COSTA RICA	3.74%	2.16%	2.71%
CROATIA	-2.14%		0.65%
CZECH REP	12.04%	-0.85%	0.07%
EL SALV	4.71%	3.06%	the first of the first of the contract of
EQ GUINEA	0.00%	-1.10%	3.78%
FIJI	3.50%	0.45%	terrar a real era era betat i det
GABON	4.73%	-0.13%	2.37%
GUINEA	2.99%	3.86%	2.54%
HONDURAS	1.60%	-0.61%	the state of the state of the state of
KYRGHYZ REP	0.52%	-14.31%	1.80%
LIECHTEN	3.74%	0.00%	
LUXEMBRG	3.74%	4.65%	0.08%
MADAGA	3.74%		0.62%
MALI	·[·····	-4.06%	2.77%
MALTA	2.65%	1.56%	2.58%
MAURITANIA	25.59%	5.08%	0.89%
	3.81%	0.44%	2.54%
MICRONESIA	-0.87%	6.32%	1.87%
MONACO	3.74%		: <u></u>
NAMIBIA	-0.87%	1.28%	2.70%
NEPAL	-0.22%	2.50%	2.59%
NICARAG	4.17%	-4.54%	
NIGER	4.08%	-2.38%	3.24%
P NEW GUINEA	2.05%	1.78%	2.23%
PANAMA	3.74%	1.94%	2.08%
POLAND	26.51%	-0.06%	0.60%
ROMANIA	9.90%	-6.59%	0.24%
RWANDA	-1.06%	1.06%	2.95%
SOMALIA	1.60%	-5.85%	2.37%
SWAZILAND	-1.07%	2.75%	3.42%
TAJIKISTAN	-4.69%	-42.06%	
TANZANIA	7.37%	-5.44%	3.15%
TRINIDAD	4.05%	-3.65%	1.28%
TUNISIA	3.67%	2.28%	2.34%
UGANDA	1.57%	-9.01%	2.51%
URUGUAY	0.01%	2.37%	0.59%
JZBEKISTAN	0.00%	-5.74%	2.44%
VATICAN	3.74%	-3.14%	4.44%
ZIMBABWE	-1.07%	-2.04%	3.09%
	1.0.70	-2.04/0	3.097
√lean	2.67%	-3.02%	1.85%
Median	3.59%	0.25%	and the state of the state of the state of the state of
Standard Deviation	6.59%	11.36%	1.42%
Coefficient Variation	2.467	-3,764	0.769
	vestment Growth	3.7	

<u>Table 2B</u>

Measures of Variability of Intelsat Investment Shares for

Countries With Shares Above Minimum for All or Most of 1978-1997

	Nalikeu	by Coefficier	it or variatio	
31-	0	Coefficient	•	Standard
Rank		of Variation	Average	Deviation
	PHILIPPINE	7.9	0.667	0.053
	SOUTH AFR	8.1	1.121	0.091
	BAHRAIN	8.4	0.327	0.028
	JORDAN	8.7	0.282	0.025
	GERMANY	9.8	3.635	0.357
6	KENYA	10.7	0.357	0.038
7	USA	10.8	22,979	2.491
	AUSTRAL	11.8	2.913	0.345
	YUGOSLV	12.2	0.225	0.028
	UK	12.3	12.209	1.496
	NETHER	12.9	1.184	0.152
11	PORTUGAL	13.5	0.646	0.132
			0.046	
	ZAMBIA	13.7		0.017
	SWITZ	14.4	1.102	0.158
	CANADA	15.6	2.412	0.376
	SWEDEN	16.8	0.579	0.097
	JAPAN	17.8	3.955	0.703
18	SPAIN	18.6	2.080	0.388
19	IRELAND	19.2	0.141	0.027
20	COLOMBIA	20.1	1.074	0.216
	SINGAP	20.8	1.477	0.307
	BELGIUM	21.6	0.668	0.149
	FRANCE	21.6	4.822	1.042
	ECUADOR			
		22.3	0.341	0.076
	QATAR	22.7	0.282	0.064
	UAE	24.3	1.387	0.338
	VENEZ	24.4	1.172	0.286
28	SYRIA	24.9	0.125	0.031
	LIBYA	25.3	0.136	0.034
30	MAURITIUS	25.7	0.142	0.036
31	EGYPT	26.1	0.561	0.146
	PERU	26.5	0.721	0.19
	DENMARK	26.6	0.457	0.12
	YEMEN	28	0.165	0.04
	JAMAICA	28.6	0.392	0.112
		29.1	0.099	
	MALAWI			0.02
	NEW ZEAL	29.4	0.524	0.15
	MALAYSIA	30.3	0.638	0.19
	HAITI	30.6	0.141	0.04
40	KUWAIT	31.1	0.941	0.29
41	AUSTRIA	31.3	0.341	0.10
42	ANGOLA	32	0.140	0.04
43	ITALY	32.4	2.815	0.91
	MOZAMBIQ	32.6	0.095	
	IRAQ	33.1	0.338	0.11
	GREECE	33.4	0.689	
	IRAN	34	1.008	
				0.34
	ICELAND	35.2	0.142	0.05
	INDONESIA	35.6	0.578	0.20
50	GHANA	35.7	0.065	0.02
	HUNGARY	36	0.072	0.02
52	CONGO, DR	36.4	0.234	
	SAUDI	36.9	2.110	
	INDIA	37	1.476	

	Ranke	d by Standa	Ranked by Standard Deviation				
	Standard Coefficient						
Rank	Country	Deviation	of Variation	Average			
1	ZAMBIA	0.017	13.7	0.125			
2	GHANA	0.023	35.7	0.065			
3	JORDAN	0.025	8.7	0.282			
	HUNGARY	0.026	36	0.072			
	IRELAND	0.027	19.2	0.141			
	BAHRAIN	0.028	8.4	0.327			
	YUGOSLV	0.028	12.2	0.225			
	MALAWI	0.029	29.1	0.099			
	MOZAMBIQ	0.023	32.6	0.095			
	SYRIA	0.031	24.9	0.125			
	LIBYA	0.034	25.3	0.125			
	MAURITIUS	0.036	25.7	0.130			
	KENYA	0.038	10.7	0.142			
	RUSSIAN FED	0.039	41.5	0.094			
	SENEGAL	0.039					
			51	0.082			
	TOGO	0.042	37.1	0.114			
	ETHIOPIA	0.043	38.5	0.112			
	HAITI	0.043	30.6	0.141			
	ANGOLA	0.045		0.140			
	YEMEN	0.046	28	0.165			
	FINLAND	0.047		0.115			
22	PARAGUAY	0.050	37.6	0.132			
23	ICELAND	0.050	35.2	0.142			
	PHILIPPINE	0.053	7.9	0.667			
25	CYPRUS	0.057	38.1	0.150			
26	BRUNEI DAR	0.061	46.8	0.131			
27	QATAR	0.064	22.7	0.282			
28	LEBANON	0.067	48.2	0.139			
29	MOROCCO	0.073	44	0.167			
30	ECUADOR	0.076	22.3	0.341			
31	BOLIVIA	0.078	56.2	0.140			
32	BANGLAD	0.082	50.2	0.163			
	CONGO, DR	0.085		0.234			
	SRI LANKA	0.087	94.7	0.091			
	PORTUGAL	0.087	13.5	0.646			
	SOUTH AFR	0.091	8.1	1.121			
	SWEDEN	0.097	<u> </u>	0.579			
	CAMEROON	0.102		0.228			
	AUSTRIA	0.102		0.341			
	DOMING REP	0.107	 	0.14			
							
	IRAQ	0.112		0.338			
	JAMAICA	0.112					
	COTE IVORY	0.121		0.292			
	DENMARK	0.121		0.45			
	GUATEM	0.123		0.119			
	BELGIUM	0.145		0.668			
	EGYPT	0.146		0.56			
48	NETHER	0.152		1.184			
49	VIET NAM	0.152		0.124			
50	NEW ZEAL	0.154	29.4	0.52			
5	OMAN	0.155		0.34			
	SWITZ	0.158		1.102			
52	LIGHTIL						
	ALGERIA	0.162		0.388			

	Ranked by Coefficient of Variation				
		Coefficient		Standard	
Rank	Country	of Variation	Average	Deviation	
55	TOGO	37.1	0.114	0.042	
56	PARAGUAY	37.6	0.132	0.050	
57	CYPRUS	38.1	0.150	0.057	
58	ETHIOPIA	38.5	0.112	0.043	
59	THAILAND	38.5	0.698	0.269	
60	FINLAND	40.8	0.115	0.047	
61	ISRAEL	41.3	0.758	0.313	
62	COTE IVORY	41.4	0.292	0.121	
63	RUSSIAN FED	41.5	0.094	0.039	
64	ALGERIA	41.8	0.388	0.162	
65	CHILE	41.8	0.710	0.297	
66	MOROCCO	44	0.167	0.073	
67	CAMEROON	44.8	0.228	0.102	
68	OMAN	44.9	0.344	0.155	
69	KOREA	45.3	1.212	0.549	
70	ARGENTN	45.5	1.449	0.659	
71	NIGERIA	46.3	1.176	0.544	
72	BRAZIL	46.4	2.156	1.000	
73	BRUNEI DAR	46.8	0.131	0.061	
74	MEXICO	47	0.774	0.364	
75	LEBANON	48.2	0.139	0.067	
76	BANGLAD	50.2	0.163	0.082	
77	SENEGAL	51	0.082	0.042	
78	BOLIVIA	56.2	0.140	0.078	
79	PAKISTAN	56.8	0.590	0.335	
80	CHINA, PR	68.2	1.142	0.779	
81	SUDAN	71.8	0.270	0.194	
82	DOMING REP	75.5	0.144	0.109	
83	SRI LANKA	94.7	0.091	0.087	
84	TURKEY	101.4	0.346		
85	GUATEM	103.3	0.119	0.123	
	NORWAY	111.1	0.919		
	KAZKHSTAN	120.9	0.165		
88	VIET NAM	122.8	0.124		

Ranked by Standard Deviation						
	Standard Coefficient					
Rank	Country	Deviation	of Variation	Average		
55	MALAYSIA	0.193	30.3	0.638		
56	SUDAN	0.194	71.8	0.270		
57	KAZKHSTAN	0.200	120.9	0.165		
58	INDONESIA	0.206	35.6	0.578		
59	COLOMBIA	0.216	20.1	1.074		
60	GREECE	0.230	33.4	0.689		
61	THAILAND	0.269	38.5	0.698		
62	VENEZ	0.286	24.4	1.172		
63	KUWAIT	0.293	31.1	0.941		
64	CHILE	0.297	41.8	0.710		
65	SINGAP	0.307	20.8	1.477		
66	ISRAEL	0.313	41.3	0.758		
67	PAKISTAN	0.335	56.8	0.590		
68	UAE	0.338	24.3	1.387		
69	IRAN	0.343	34	1.008		
70	AUSTRAL	0.345	11.8	2.913		
71	TURKEY	0.350	101.4	0.346		
72	GERMANY	0.357	9.8	3.635		
73	MEXICO	0.364	47	0.774		
74	CANADA	0.376	15.6	2.412		
75	SPAIN	0.388	18.6	2.080		
76	NIGERIA	0.544	46.3	1.176		
77	INDIA	0.546	37	1.476		
78	KOREA	0.549	45.3	1.212		
79	ARGENTN	0.659	45.5	1.449		
80	JAPAN	0.703	17.8	3.955		
81	CHINA, PR	0.779	68.2	1.142		
82	SAUDI	0.779	36.9	2.110		
83	ITALY	0.912	32.4	2.815		
84	BRAZIL	1.000	46.4	2.156		
85	NORWAY	1.021	111.1	0.919		
86	FRANCE	1.042	21.6	4.822		
87	UK	1.496	12.3			
88	USA	2.491	10.8	22.979		

APPENDIX I

STATISTICAL ANALYSIS OF INVESTMENT IN INTELSAT, 1988-1996 74 COUNTRIES WITH INVESTMENT SHARES GREATER THAN MINIMUM, NOT INCLUDING THE U.S.

Regression Results:

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	T for HO: Parameter=0	Prob > T
INTERCEPT	1	-0.2551	0.1110	-2.298	0.0219
LN POPN	1	0.0531	0.0274	1.936	0.0534
LN GDP	1	0.3380	0.0504	6.706	0.0001
LN TELO	1	0.2567	0.0484	5.256	0.0001
ALĪSAT	1	-0.0088	0.0704	-0.125	0.9004
FOC	1	-0.2789	0.0713	-3.908	0.0001
TREND	1	-0.0014	0.0132	-0.110	0.9123

WHERE :

POPN is a given country's annual population

GDP is a given country's real GDP in constant 1996 US dollars

TELO is the number of outgoing minutes of telephone calls

ALLSAT is a dummy variable representing when a competitor's (non-Intelsat)

satellite system has a footprint over the country

FOC is a dummy variable for the presence of fiber-optic cable

Regression Model Analysis:

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model Error C Total	6 546 552	524.025 202.297 726.323	87.337 0.370	235.723	0.0001
Root MSE Dep Mean C.V.	0.60869 2.30060 26.45809		R-square Adj R-sq	0.7215 0.7184	

Regression Model Discussion

The regression model is based upon INTELSAT investment share data obtained from INTELSAT's annual reports, demographic data from the Internation Telecommunication Union's (ITU) World Telecommunication Indicators Database (WTI%A.DTA), and data collected from other sources. This note describes the variables used in the regression model as well as the structure and assumptions of the regression model.

1. Variable Definitions and Data Sources

The variables used in the regression analysis are presented here by category. The variables are computed on an annual basis unless otherwise noted. The data set is a panal, containing annual longitudinal data from 1988 through 1996 for each of the countries used in the analysis.

Country Variable

COUNTRY

The name of the countries included in the study. Includes all countries a member of INTELSAT as of May 1997, excluding those countries' observations for which there are significant numbers of missing data, and those which remain at or near the minimum investment share level for the entirity of their membership. All of the subsequent variables have values for each country for each year, unless otherwise noted.

Investment Share Variables

INVSHR

Each member country's particular percentage of the total country investment in INTELSAT

Investment Amount Variables

INVAMT

A country's actual investment amount represented by the corresponding investment share percentage, measured in millions of current U.S. dollars. This is calculated by multiplying a given country's investment share by the total yearly investment amount in INTELSAT to obtain an investment share figure in current U.S. dollars. For 1988, "Total Investment in INTELSAT Space Segment" was used to obtain the total investment in INTELSAT; for the period 1990—1996, owner's equity was used. These data were taken from various issues of INTELSAT Annual Reports. Data for 1989, which were unobtainable, were estimated by taking a linear average between the 1988 and 1990 data.

INVAMTPP

The INVAMT variable inflated to constant 1996 dollars by the "Industrial Commodities Less Fuels" Producer Price Index as published by the US Bureau of Labor Statistics (series WPU03T15M05).

Demand-Side Variables

POPN

The annual population level, as measured in millions of people. These data come from the ITU database.

GDP PPI

The annual Gross Domestic Product for each country, measured in billions of current US dollars. For 1977-1995, these data come from the ITU database; 1996 data are from the 1997 *International Financial Statistics Yearbook* published by the IMF. These data were then inflated to constant 1996 dollars by the "Industrial Commodities Less Fuels" Producer Price Index as published by the US Bureau of Labor Statistics (series WPU03T15M05).

TEL OUT

The annual volume in minutes of outgoing international telephone traffic (effective (completed) traffic originating in a given country to destinations outside that country). These data come from the ITU database.

Demand-Substitute Variables

A. FOC

A dummy variable equaling one in the first and each subsequent year after a country first became connected to a fiber optics cable system. The data used to construct this variable came from *The Brattle Group Report*, Exhibit HSH-2.1.

B. Satellite Variables

The data used to construct the satellite dummy variables came from satellite launch and coverage data available in the 1997 Phillips World Satellite Almanac.

COL A dummy variable that equals 1 in the first and each subsequent year after a country first gained access to a Columbia-operated satellite, and 0 elsewise.

ISP A dummy variable that equals 1 in the first and each subsequent year after a country first gained access to a Intersputnik-owned (Express- or Rimshot -

operated) satellite, and 0 elsewise.

ORION A dummy variable that equals 1 in the first and each subsequent year after a country first gained access to a Columbia-operated satellite, and 0 elsewise.

PAN A dummy variable that equals 1 in the first and each subsequent year after a country first gained access to a PanAmSat-operated satellite, and 0 elsewise.

ALLSAT

A dummy variable constructed from the COL, ISP, ORION, and PAN variables that equals 1 in the first and each subsequent year after a country first gained access to any of the four aforementioned competitor's satellite systems, and 0 elsewise.

Investment Class-Specific Variables

MIN

A dummy variable that equals 1 if a country's investment share level remains at or near the minimum INTELSAT investment level of 0.00500 % for the entire period of its membership. This variable remains constant throughout the time period considered.

Time Trend Variable

TREND

This variable simply takes on a constant-level increasing integer value (1,2,3, etc) for each year. Given that the data are longitudinal, the time trend variable purports to capture any extraneous, non-specified effects that would impact on the dependent variable over time (e.g., technological changes).

Logged Variables

LN_INV	The natural log of the variable INVAMTPP.
LN_POPN	The natural log of the variable POPN.
LN_GDP	The natural log of the variable GDP_PPI.
LN_TELO	The natural log of the variable TEL_OUT.

2. Model Specification

The regression presented here is a model of the investment shares as expressed in actual, inflation-adjusted constant US dollars of the member countries of INTELSAT. Due to the fact that there is a wide variation in different country's values of the demographic and INTELSAT investment share variables, investment share amounts are modeled as a doubled-logged function of several of the variables described above. The function can be specified as follows:

INVAMTPP = POPN^{$$\beta_1$$} x GDP_PPI $^{\beta_2}$ x TEL_OUT $^{\beta_3}$ x $e^{\beta_0 \times \beta_3 \times FOC \times \beta_6 \times ALLSAT \times \beta_1 \times TREND}$

The specific regression equation that results from this model is, therefore:

LN_INV =
$$\beta_0 + \beta_1 LN_POPN + \beta_2 LN_GDP_PPI + \beta_3 LN_TELO + \beta_4 FOC + \beta_5 ALLSAT + \beta_6 TREND.$$

A1-6

Non-Minimum Investment Share Countries Used in the Regression Model

OBS	COUNTRY	4 4	MOROCCO
1	ALGERIA		
2	ARGENTN	45	MOZAMBIQ
3	AUSTRAL	46	NETHER
4	AUSTRIA	47	NEW ZEAL
5	BANGLAD	48	NIGERIA
6	BELGIUM	49	NORWAY
7	BOLIVIA	50	OMAN
8	BRAZIL .	51	PAKISTAN
9	CANADA	52	PARAGUAY
10	CHILE	53	PERU
11	CHINA, PR	54	PHILIPPINE
12	COLOMBIA	55	PORTUGAL
13	COTE IVORY	56	QATAR
14	CYPRUS	57	SAUDI
15	DENMARK	58	SENEGAL
16	DOMING REP	59	SINGAP
17	ECUADOR	60	SOUTH AFR
18	EGYPT	61	SPAIN
19	ETHIOPIA	62	SRI LANKA
20	FINLAND	63	SWEDEN
21	FRANCE	64	SWITZ
22	GERMANY	65	SYRIA
23	GHANA	66	THAILAND
24	GREECE	67	TOGO
25	GUATEM	68	TURKEY
26	HAITI	69	UAE
27	ICELAND	70	UΚ
28	INDIA	71	VENEZ
29	INDONESIA	72	VIET NAM
30	IRAN	73	YEMEN
31	IRELAND	74	ZAMBIA
32	ISRAEL		
33	ITALY		
34	JAMAICA		
35	JAPAN		
36	JORDAN		
37	KENYA		
38	KOREA		
39	KUWAIT		
40	MALAWI		
41	MALAYSIA		
42	MAURITIUS		

LECG February 1998

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MEXICO

APPENDIX II

"Event Study" Analysis of Comsat's Common Stock Price

As part of the analysis described in this report, several critical identifiable events were studied to see if they had a significant impact on Comsat's stock prices. The list of events can be found in Table A2-1, and include events related to PanAmSat's satellite launches, the Hughes-PanAmSat merger, and the WTO/GATS communications satellite deal.

We considered the movement of Comsat's common share price relative to that of the Standard & Poor's 500 market index over the time period 1988 to 1997. [Both the share price and market index data were taken from CompuServe's historical stock price database, and were adjusted for dividends and splits as of 13 February 1998.] The daily returns of the S&P 500 were regressed on Comsat's daily returns. The resulting residuals were analyzed to identify those dates on which the stock price moved significantly, using a 95% confidence interval. Those dates for which the residual fell outside the confidence interval are denoted by an asterick in the column labeled "5% significant". The dates on which critical events occurred were then studied to see if there were excess returns to the Comsat stock price on or near those dates.

To enable for clearer analysis of the results, four separate tables, each reflecting one of the four categories of events studied, were created focussing solely on the dates on which the events occurred. These tables are labeled Table A2-2 through A2-5.

Table A2-1: Important Events Relating to Comsat and PanAmSat

PanAmSat	and Hughes Merger
4/4/96	PanAmSat owners are exploring options, including a possible sale.
8/27/96	Sale of PanAmSat said to be inimment; Hughes tops list of suitors.
9/10/96	PanAmSat is said to be in talks to sell controlling stake to Hughes Electronics
9/20/96	Hughes Electronics Corp. and PanAmSat Corp. announce agreement to merge satellite businesses into new public company.
12/05/96	No Further Antitrust Approvals Necessary to Complete Merger, DOJ announces. The Antitrust Division of the U.S. Department of Justice permitted a key 30-day review period to pass without taking action to halt the merger or imposing an additional review period.
4/04/97	FCC Approval Leaves Only SEC Clearance, Shareholder Vote For Merger Completion. FCC approves e transfer of orbital slot licenses from PanAmSat and Galaxy to the new, combined PanAmSat Corporation.
4/17/97	The SEC has declared the registration statement (of the Hughes-PanAmSat merger) effective. PanAmSat Corporation announced today that it will mail to proxy detailing the planned PanAmSat and Galaxy Satellite division of Hughes to its shareholders.
5/8/97	PanAmSat shareholders approve merger.
5/16/97	PanAmSat and the Galaxy satellite services business of Hughes Communications, Inc. officially merged.

WTO ever	nts, 96 and 2/97
4/27/96	U.S. threatens to withdraw satellite services from its telecommunications liberalization offer, days before Tuesday's deadline of WTO talks.
4/29/96	EU leaders warned that the WTO telecoms talks could collapse due to the U.S. excluding satellite communication services from the deal. A senior EU negotiator noted that "it's a potential deal-breaker"; the EU delegation called the US proposal "completely unacceptable"
4/30/96	US propose and win an extension in the talks
2/15/97	Negotiations on basic telecommunication services, held in the GATS framework under the auspices of the WTO, concluded successfully.

PanAmSat	Satellite Launches
6/15/88	PAS 1 satellite is successfully launched. Services Atlantic region (North and South America and Europe).
8/10/90	PanAmSat plans to launch third satellite to cover Asia and Pacific Rim.
9/3/93	PanAmSat announced today it is ordering a fourth satellite, from Hughes.
12/3/93	PanAmSat set to launch global system with close to \$1 billion in pre-launch agreements.
7/8/94	PAS-2 satellite successfully launched. Services Asia-Pacific region.
12/1/94	Panamasat K2 (PAS-3) satellite launch failure. Satellite destroyed on launch.
12/2/94	PAS-3 to be relaunched in a year, PanAmSat announces.
3/10/95	PanAmSat to be first to launch Hughes' new HS 601HP model.
6/29/95	PAS-4 satellite to be launched August 1.
8/3/95	PAS-4 satellite successfully launched. Services Indian Ocean region (South, SouthEast and NorthEast Asia, Africa, and Europe and Russia). Creates the world's first global private satellite system.
1/5/96	PAS-7 launch is scheduled for late 1997 by Arianespace.
1/12/96	PAS-3 satellite successfully launched. Services Atlantic region (North and South America, Europe and Africa).
6/11/96	PanAmSat's PAS-6 begins major performance tests in preparation for December 1996 liftoff.
11/15/96	PanAmSat PAS-6 launch delayed; rescheduled for March/April 1997.
3/21/97	PanAmSat expects delay in completion of PAS-7.
4/29/97	FCC granted PanAmSat permission to construct, launch, and operate PAS-8 satellite.
4/30/97	PanAmSat reschedules PAS-6 satellite launch for late summer 1997.
5/1/97	PanAmSat delays launch of PAS-7.
5/22/97	PAS-6 launch delayed.
6/20/97	PanAmSat schedules to launch new satellite in 1999 with Arianespace.
8/28/97	Launch of PAS-5 satellite.
11/10/97	PAS-6 suffers in-orbit power problem.
12/9/97	PanAmSat launches Galaxy VIII-I satellite.

Comsat-sp	ecific events affecting its stock price
2/21/97	Comsat reports 1996 earnings today. Revenues were \$1billion, up 17.6% in 1995; net income was \$8.6 million, 18 cents per share, down from \$38 million, or 79 cents per share, in 1995.
3/25/97	Comsat announces restructuring - plans to sell off non-core operations and cut back to its core business
4/10/97	Comsat announces successful debt tender. The company's offer to repurchase its 8 1/8% debentures due April 1, 2004 was successfully concluded as of April 9, 1997. The company repurchased \$89.5 m of the \$160m in principal amount of the debantures outstanding.
4/21/97	Comsat reported today a net loss of \$5.3m, or 11 cents pershare, for 1Q97, versus net income of \$9.3m, or 19 cents per shre, for same period last year. However, all of the losses came from Ascent Entertainment Group, which the company plans to divest in 1997. Excluding it, Comsat's 1Q income would have been \$6.8m, or 14 cents per share. Comsat declares dividend of 5 cents per share.
4/24/97	Comsat Corp sues former CEO Bruce Crockett, Herbert Denton, Providence Capital and Wyser-Pratte, Inc
5/16/97	Comsat board approves plan for a tax-free spin-off of Ascent Entertainment Group. Comsat has already received a favorable IRS ruling that the spin-off would not be taxable to the corporation or its shareholders.

PanAmSat	-specific events
6/30/97	PanAmSat agreed Monday to supply two satellites to MCI to build a nationwide satellite communications network for the Fedaeral Aviation Administration.
6/30/97	PanAmSat wins major contracts with Telstra, AAPT Sat-Tel for domestic satellite services in Australia.

Table A2-2: PanAmSat Launches

Date	Obs	Predicted CQ_DR	Residuals	5% significant	SP_DR	CQ_DR	PAS launches	Event
Dute	Cus	FIEGICIEU CO_DK	Residuals	3 A Significant	<u> </u>	CU_DI	I AS IAUNCIES	LYCH
6/10/88	111	0.12%	0.76%		0.88%	0.17%		
6/13/88	112	-0.15%	0.37%		0.22%	-0.17%		
6/14/88	113	0.73%	1.67%	- ·	2.40%	0.94%		
6/15/88	114	-0.07%	0.70%		0.64%	-0.07%	4	PAS 1 satellite is successfully launched. Services Atlantic region (North and South America
6/16/88	115	-0.59%	-1.31%		-1.91%	-0.07%		and Europe).
6/17/88	118	-0.65%	0.43%		-0.22%	-0.73%		
6/20/88	117	0.05%	-0.26%		-0.21%	0.08%		
0/20/00		0.00 %	-0.20%		-0.2170	0.007		
8/6/90	855	-1.34%	-2.27%	-	-3.61%	-1.67%		
8/7/90	656	-0.86%	-1.22%		-2.08%	-1.07%		
8/8/90	657	0.36%	2.61%		2.97%	0.48%		
8/9/90	658	0.47%	0.98%		1.44%	0.61%		
8/10/90	659	-0.48%	0.07%		-0.41%	-0.58%	1	PanAmSat plans to launch third satellite to cover Asia and Pacific Rim.
8/13/90	660	-0.40%	0.80%		0.40%	-0.48%		
8/14/90	661	0.84%	0.99%		1.83%	1.08%		
8/15/90	662	0.36%	0.64%		1.00%	0.46%		
8/16/90	663	-1.04%	1.64%		0.59%	-1.30%		
8/17/90	664	-1.83%	-0.13%		-1.96%	-2.29%		
8/27/93	1430	-0.14%	-0.27%		-0.41%	-0.16%		
1								
11/29/93	1494	-0.23%	-0.24%		-0.19%	0.07%		
11/30/93	1495	0.16%	-1.32%		-1.55%	-0.28%		The second secon
12/1/93	1496	-0.11%	-1.15%		-0.98%	0.22%		
12/2/93	1497	0.21%	-2.08%		-2.19%	-0.12%		
12/3/93	1498	0.31%	0.60%		0.81%	0.28%	1	PanAmSat set to launch global system with close to \$1 billion in pre-launch agreements.
12/6/93	1499	0.07%	1.31%		1.61%	0.40%		
12/7/93	1500	-0.01%	-0.26%		-0.20%	0.10%		
12/8/93	1501	-0.16%	-0.98%		-0.99%	0.00%		
12/9/93	1502	-0.26%	0.56%		0.40%	-0.19%		
12/10/93	1503	0.06%	2.46%		2.20%	-0.31%		The second control of

Table A2-2: PanAmSat Launches

Date	Obs	Predicted CQ_DR	Residuals	5% significant	P_DR	CQ_DR	PAS launches	Event
								The second secon
7/5/94	1844	-0.13%	-0.77%		-0.53%	0.31%		
7/6/94	1645	0.28%	2.28%		2.15%	-0.15%		
7/7/94	1646	0.12%	1.30%		1.58%	0.37%		
7/8/94	1647	-0.06%	-0.38%		-0.26%	0.17%	1	PAS-2 satellite successfully launched Services Asia-Pacific region.
7/11/94	1648	-0.25%	-0.70%		-0.78%	-0.09%		
7/12/94	1649	0,45%	0.77%		0.52%	-0.30%		
7/13/94	1650	0.43%	1.89%		2.34%	0.58%		
7/14/94	1851	0.35%	-0.69%		-0.25%	0.56%		
7/15/94	1652	0.15%	-1.37%		-1.02%	0.45%		
11/25/94	1745	0.20%	-1.02%		-0.32%	0.89%		
11/28/94	1748	0.17%	0.12%		0.32%	0.27%		
11/29/94	1747	0.26%	-0.49%		-0.32%	0.23%		
11/30/94	1748	-0.75%	0.07%		0.32%	0.34%		
12/1/94	1749	-0.06%	-0.22%		-0.97%	-0.94%	1	Panamasat K2 (PAS-3) satellite launch failure Satellite destroyed on launch.
12/2/94	1750	0.50%	-1.57%		-1.63%	-0.06%	1	PAS-3 to be relaunched in a year, PanAmSat announces.
12/5/94	1751	-0.26%	-1.16%		-0.66%	0.64%		
12/6/94	1752	-0.11%	-0.74%		-1.00%	-0.31%		
12/7/94	1753	-0.58%	-1.58%		-1.69%	-0.13%		
12/8/94	1754	-0.61%	-0.79%		-1.37%	-0.72%		
12/9/94	1755	0.45%	0.96%		0.35%	-0.76%		
3/6/95	1813	-0.17%	-0.23%		-0.35%	-0.13%	1	
3/7/95	1814	0.01%	0.51%		0.35%	-0.20%		
3/8/95	1815	0.00%	-0.71%		-0.69%	0.03%		
3/9/95	1816	0.62%	1.05%		1.05%	0.01%		and the control of th
3/10/95	1817	0.57%	-0.97%		-0.34%	0.80%	1 1	PanAmSat to be first lauch Hughes' new HS 601HP model
3/13/95	1818	0.24%	-0.91%		-0.35%	0.73%		
3/14/95	1819	-0.01%	-0.59%		-0.35%	0.32%		
3/15/95	1820	0.29%	-0.68%		-0.70%	0.00%		
3/16/95	1821	0.32%	-0.29%		0.00%	0.39%		
3/17/95	1822	0.01%	0.03%		0.35%	0.42%		

Table A2-2: PanAmSat Launches

Date	Obs	Predicted CQ_DR	Residuals	5% significant	SP_DR	CQ_DR	PAS launches	Event
6/26/95	1891	-0.34%	0.72%		0.31%	-0.50%		
6/27/95	1892	-0.17%	-1.21%		-1.55%	-0.42%		
6/28/95	1893	-0.01%	-0.14%		-0.32%	-0.20%		The second section of the second seco
6/29/95	1894	0.23%	-2.52%		-2.53%	0.00%	1	PAS-4 satellite to be launched August 1.
6/30/95	1895	0.08%	0.42%		0.65%	0.30%	· · · · · · · · · · · · · · · · · · ·	r 70-4 desiring to be faultilited ringdes.
7/3/95	1898	0.33%	1.54%		1.61%	0.11%		TOTAL PROPERTY CONTINUES C
7/5/95	1897	0.30%	-0.33%		0.00%	0.43%		
7/6/95	1898	0.64%	0.02%		0.32%	0.39%		
								• • • • • • • • • • • • • • • • • • • •
7/28/95	1914	-0.17%	0.36%		0.27%	-0.10%		
7/31/95	1915	-0.35%	-0.10%		-0.27%	-0.21%		
8/1/95	1916	0.32%	0.62%		0.27%	-0.42%		The second control of the control of
8/2/95	1917	-0.76%	0.77%		1.09%	0.42%		
8/3/95	1918	0.31%	-0.32%		-1.08%	-0.94%		PAS-4 satellite successfully launched. Services Indian Ocean region (South, SouthEast and NorthEast Asia, Africa, and Europe and Russia). Creates the world's first global private satellite system.
8/4/95	1919	0.18%	2.40%		2.72%	0.41%		
8/7/95	1920	-0.04%	1.41%		1.59%	0.24%		er Tellerine i Albrine. Mit den i Mittersonffatten mit den septimin suptimin en prime soniere en prime soniere en prime
8/8/95	1921	0.06%	-1.79%		-1.82%	-0.03%		
1/2/96	2022	0.56%	-1.01%		-0.66%	0.46%		
1/3/96	2023	-0.29%	0.43%		0.99%	0.72%		
1/4/96	2024	-0.57%	-1.67%		-1.96%	-0.35%		
1/5/96	2025	0.32%	-1.09%	į	-1.67%	-0.71%	1	PAS-7 launch is scheduled for late 1997 by Arianespace.
1/8/96	2026	-0.50%	1.71%		2.03%	0.43%		
1/9/96	2027	-1.34%	-0.83%		-1.33%	-0.61%		
1/10/96	2028	-0.44%	-0.68%		-2.02%	-1.68%		
1/11/96	2029	0.12%	1.13%		0.69%	-0.54%		
1/12/96	2030	-0.04%	-1.14%		-1.02%	0.17%		PAS-3 satellite successfully launched. Services Atlantic region (North and South America, Europe and Africa).
1/15/96	2031	0.36%	-1.00%		-1.03%	-0.03%		
1/16/96	2032	0.46%	-2.80%	*	-2.44%	0.47%		
1/17/96	2033	-0.16%	0.61%		1.07%	0.59%	1	

Table A2-2: PanAmSat Launches

{	Obs	Predicted CQ_DR	Residuals	5% significant	SP_DR	CQ_DR	PAS launches	Event
6/6/96	2131	-1.04%	-0.80%		-0.65%	0.21%		
6/7/96	2132	0.46%	-0.27%		-1.31%	-1.30%		
6/10/96	2132	0.16%	0.86%		1.32%	0.60%		
6/11/96	2134	-0.26%	2.02%		2.18%	0.22%	1	PanAmSat's PAS-6 begins major performance tests in preparation for December 1996 liftoff.
6/12/96	2135	-0.39%	0.69%		0.43%	-0.31%		
6/13/96	2136	-0.21%	0.60%		0.21%	-0.48%		
6/14/96	2137	-0.04%	-0.64%		-0.85%	-0.25%		
11/12/96	2242	-0.07%	0.60%		0.51%	-0.09%		
11/13/96	2243	0.26%	0.33%		0.26%	-0.08%		
11/14/96	2244	0.63%	1.01%		1.28%	0.35%		
11/15/96	2245	-0.20%	0.63%		1.26%	0.81%	1	PanAmSat PAS-6 launch delayed; rescheduled for March/April 1997
11/18/96	2246	0.28%	0.45%		0.25%	-0.23%		
11/19/96	2247	0.43%	1.21%		1.49%	0.37%		
11/20/96	2248	-0.07%	0.05%		0.49%	0.56%		
3/18/97	2328	-0.56%	-1.09%		-0.93%	0.21%		
3/19/97	2329	-0.38%	-1.31%		-1.88%	-0.70%		The control of the co
3/20/97	2330	0.23%	-1.29%		-1.67%	-0.46%		
3/21/97	2331	0.12%	1.23%		1.46%	0.30%	1	PanAmSat expects delay in completion of PAS-7.
3/24/97	2332	0.73%	1.31%		1.44%	0.17%		
3/25/97	2333	-0.25%	-1.20%	1	-0.47%	0.94%	į,	Comsal announces restructuring - plans to sell off non-core operations and cut back to its core business
3/26/97	2334	-1.10%	-0.22%		-0.48%	-0.31%		
110.40		0.700	r coo	*	E 0004	-0.03%		Comsat petitioned the FCC today to relieve it from its regulatory burden imposed by its "dominant carrier"
4/24/97	2354	-0.72%	-5.58%	*	-5.62%	-0.03%	 	dessification.
4/25/97	2355	0.06%	-2.56%		-3.27%			
4/28/97	2356	1.55%	0.56%		0.62%	0.09%		
4/29/97	2357	1.40%	-0.93%		0.61%	1.78%	-	FCC granted PanAmSat permission to construct, launch, and operate PAS-8 satellite.
4/30/97	2358	0.03%	-0.79%		0.61%	0.05%		PanAmSat reschedules PAS-6 satellite launch for late summer 1997
5/1/97	2359	0.75% 1.49%	1.48%		1.51%	0.96%		PanAmSat delays launch of PAS-7.
5/2/97	2360	0.71%	0.74%		1.49%	1.90%		
5/5/97 5/6/97	2361	-0.71%	0.56% 1.30%		2.05%	0.91%		

Table A2-2: PanAmSat Launches

Date	Obs	Predicted CQ_DR	Residuals	5% significant SP_DR	CQ_DR	PAS launche	s Event
5/19/97	2371	0.16%	0.60%	0.29	6 -0.37%		
5/20/97	2372	0.64%	-0.74%	-0.58			
5/21/97	2373	-0.31%	0.24%	0.88		 	
5/22/97	2374	0.38%	0.89%	0.58		1	OAO Alicente Albertal
5/23/97	 	0.38%	1.35%	1.73		 	PAS-6 launch delayed.
5/27/97	2375	0.07%	1.32%	1.70		 	
5121191	2376	0.07%	1.3276		0.50%		
6/17/97	2391	-0.12%	-0.13%	-0.269	6 -0.14%	<u> </u>	
6/18/97	2392	0.33%	1.40%	1.289	6 -0.13%		
6/19/97	2393	0.45%	0.69%	1.019	6 0.43%		
6/20/97	2394	-1.00%	-0.70%	-0.259	6 0.58%	1	PanAmSat schedules to launch new satellite in 1999 with Arianespace.
6/23/97	2395	-0.09%	1.00%	0.009	6 -1.25%		
6/24/97	2396	0.39%	-0.41%	-0.509	6 -0.10%		
6/25/97	2397	-0.54%	-0.64%	-0.259	6 0.50%		
8/22/97	2438	0.76%	-0.68%	-1.999	6 -1.63%		The state of the s
8/25/97	2439	-0.61%	-0.61%	0.159	6 0.97%		
8/26/97	2440	-0.62%	1.05%	0.439	6 -0.76%		
8/27/97	2441	-0.25%	0.48%	-0.149	-0.77%		
8/28/97	2442	-0.47%	-0.61%	-0.879	-0.30%	1	Launch of PAS-5 satellite.
8/29/97	2443	1.00%	0.76%	0.299	-0.58%		
9/2/97	2444	1.54%	-0.85%	0.149	1.27%		
9/3/97	2445	-0.17%	-1.25%	0.299	1.96%		
11/5/97	2490	-0.46%	2.65%	3.229			
11/6/97	2491	-1.01%	1.50%	1.049			
11/7/97	2492	0.11%	-0.79%	-1.809			
11/10/97	2493	-0.36%	-0.11%	0.009		1	PAS-6 suffers in-orbit power problem.
11/11/97	2494	-0.81%	-0.55%	-0.929	<u> </u>		
11/12/97	2495	-0.48%	-1.17%	-1.989	-1.01%		

Table A2-2: PanAmSat Launches

Date	Obs	Predicted CQ_DR	Residuals	5% significant	SP_DR	CQ_DR	PAS launches	Event
12/4/97	2510	0.01%	0.79%		1.09%	0.40%		,
12/5/97	2511	0.39%	0.53%		0.54%	0.03%		
12/8/97	2512	-0.38%	0.95%		1.34%	0.51%		
12/9/97	2513	-0.73%	-0.81%		-1.19%	-0.46%	1	PanAmSat launches Galaxy VIII-I satellite
12/10/97	2514	-0.70%	-0.34%		-1.07%	-0.91%		
12/11/97	2515	-0.56%	0.16%		-0.54%	-0.87%		
12/12/97	2516	0.45%	0.84%		0.27%	-0.70%		

Chart A2-2

Comsat vs S&P 500 Daily Returns; (PanAmSat launch dates highlighted)

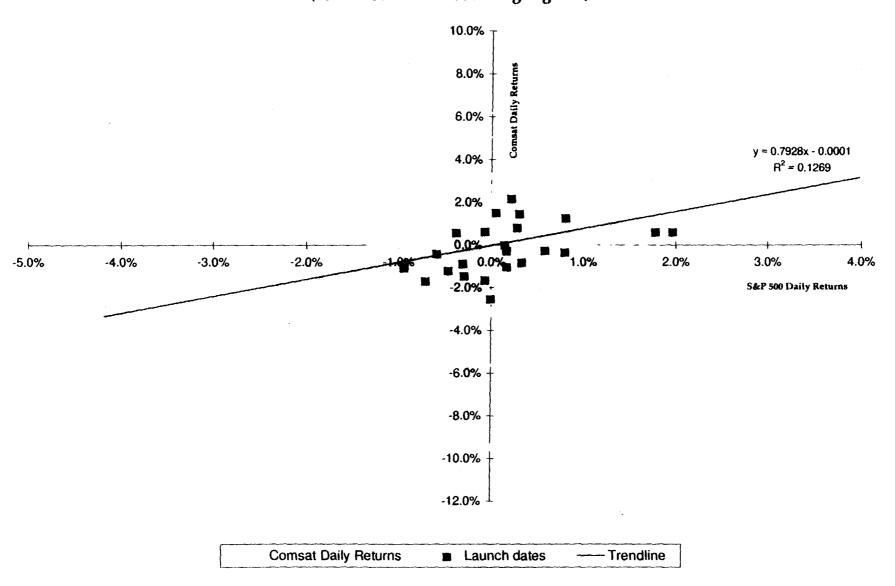
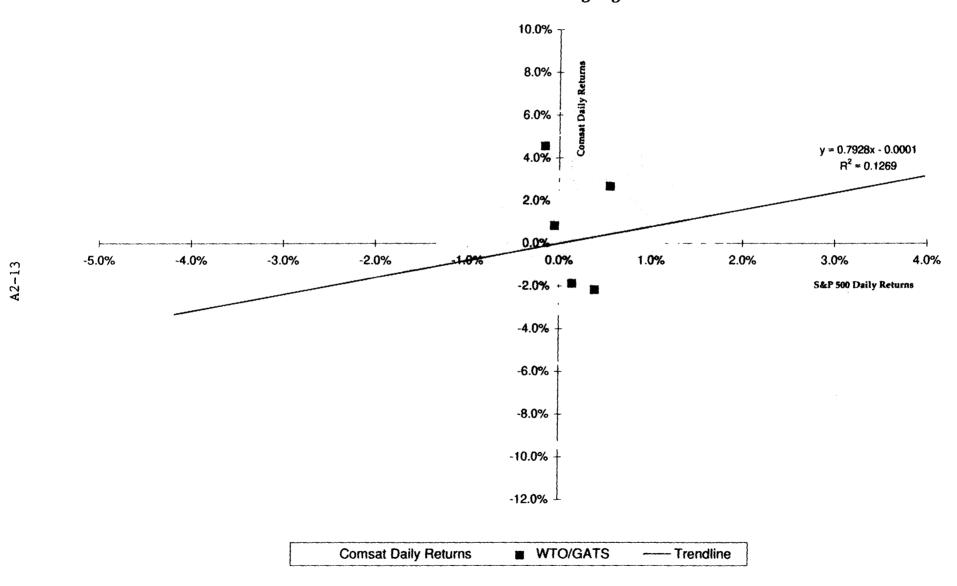


Table A2-3: WTO/GATS Events

Date	Obs	Predicted CQ_DR	Residuals	5% significant	CQ_DR	SP_DR	WTO Events	Event
1/5/88	1	2.22%	-0.67%		1.55%	2.82%		
1/6/88	2	-0.13%	0.13%		0.00%	-0.14%		
1/7/88	3	0.06%	0.15%		0.22%	0.10%		
1/8/88	4	-2.07%	2.29%		0.22%	-2.60%		
4/19/96	2098	0.33%	0.11%		0.44%	0.43%	_	
4/22/96	2099	0.30%	-3.12%	*	-2.82%	0.39%		
4/23/96	2100	0.19%	-2.20%		-2.01%	0.26%		
4/24/96	2101	0.13%	1.24%		1.37%	0.18%		
4/25/96	2102	-0.04%	0.71%		0.67%	-0.03%		
4/26/96	2103	0.42%	2.26%		2.68%	0.55%	1	4/27 US threatens to withdraw satellite services from its telecom. liberalization offer
								EU leaders warned that the WTO telecoms talks could collapse due to the U.S. excluding satellite communication services from the deal. A senior EU negotiator noted that "it's a
4/29/96	2104	-0.14%	4.70%	*	4.57%	-0.16%	1	potential deal-breaker", the EU delegation called the US proposal "completely
4/30/96	2105	-0.05%	0.88%		0.83%	-0.05%	1	US propose and win an extension in the talks
5/1 <i>/</i> 96	2106	0.17%	1.06%		1.24%	0.23%		
5/2/96	2107	-0.74%	3.39%	*	2.65%	-0.92%		
5/3/96	2108	-0.50%	1.10%		0.60%	-0.62%		
2/5/97	2300	-0.36%	-1.01%		-1.37%	-0.43%		
2/6/97	2301	-0.59%	1.05%		0.46%	-0.72%		
2/7/97	2302	0.66%	-3.42%	*	-2.76%	0.84%		
2/10/97	2303	0.51%	-0.74%		-0.24%	0.65%		
2/11/97	2304	-0.39%	1.11%		0.71%	-0.48%		
2/12/97	2305	1.09%	1.51%		2.59%	1.39%		
2/13/97	2306	1.15%	1.61%		2.76%	1.47%		
2/14/97	2307	0.22%	-5.14%	*	-4.92%	0.29%		
2/18/97	2308	0.10%	-1.98%		-1.88%	0.14%	1	2/15/97: WTO negotiations concluded successfully
2/19/97	2309	0.29%	-2.45%		-2.16%	0.39%		
2/20/97	2310	-0.79%	-1.41%		-2.21%	-0.98%		
2/21/97	2311	-0.40%	-2.11%		-2.51%	-0.49%		Comsat reports 1996 earnings today. Revenues were \$15illion, up 17.6% in 1995; net income was \$8.6 million, 18 cents per share, down from \$36 million, or 79 cents per share, in 1995.
2/24/97	2312	0.19%	0.07%		0.26%	0.26%		

Chart A2-4

Comsat vs S&P 500 Daily Returns; (WTO/GATS event dates highlighted)



February 1998

Table A2-4: PanAmSat-Hughes Merger

1		 1		·	· · · · · · · · · · · · · · · · · · ·		PAS&Hughes	T
Date	Obs	Predicted CQ_DR	Residuals	5% significant	CQ_DR	SP_DR	merger	Event
1/5/88	1	2.22%	-0.67%		1.55%	2.82%		
1/6/88	2	-0.13%	0.13%		0.00%	-0.14%		
1/7/88	3	0.06%	0.15%		0.22%	0.10%		
1/8/88	4	-2.07%	2.29%		0.22%	-2.60%		
4/2/96	2086	0.52%	3.74%	*	4.26%	0.67%		
4/3/96	2087	-0.04%	2.33%		2.30%	-0.03%		
4/4/96	2088	0.22%	0.78%		1.00%	0.30%	1	PanAmSat owners are exploring options, including a possible sale.
4/8/96	2089	-1.08%	-0.90%		-1.98%	-1.35%		
4/9/96	2090	-0.42%	1.94%		1.51%	-0.52%		
4/10/96	2091	-0.79%	6.25%	*	5.46%	-0.98%		
4/11/96	2092	-0.95%	1.66%		0.71%	-1.19%		
8/22/96	2185	0.45%	-0.13%		0.32%	0.58%		
8/23/96	2186	-0.01%	1.28%		1.27%	0.00%		
8/26/96	2187	-0.38%	1.32%		0.94%	-0.47%		
8/27/96	2188	0.02%	6.17%	*	6.19%	0.04%	1	Sale of PanAmSat said to be inimment, Hughes tops list of suitors.
8/28/96	2189	0.10%	6.02%	*	6.12%	0.14%		
8/29/96	2190	-0.71%	0.98%		0.27%	-0.87%		
8/30/96	2191	-0.73%	0.18%		-0.55%	-0.90%		
9/3/96	2192	-0.57%	0.84%		0.28%	-0.70%		
9/4/96	2193	0.58%	-0.58%		0.00%	0.74%		
9/5/96	2194	-0.27%	-1.38%		-1.65%	-0.32%		
9/6/96	2195	0.18%	2.06%		2.23%	0.24%		
9/9/96	2196	0.70%	1.76%		2.46%	0.90%		Federal judge dismisses PanAmSat suit against Comsat.
9/10/96	2197	0.45%	-2.85%	*	-2.40%	0.58%		PanAmSat is said to be in talks to sell controlling stake to Hughes Electronics
9/11/96	2198	0.13%	1.23%		1.37%	0.18%		
9/12/96	2199	0.62%	-0.89%		-0.27%	0.80%		
9/13/96	2200	0.72%	-0.18%		0.54%	0.92%		
9/16/96	2201	0.84%	-0.84%		0.00%	1.07%		
9/17/96	2202	-0.10%	1.18%		1.08%	-0.11%		
9/18/96	2203	-0.12%	1.99%		1.86%	-0.14%		
9/19/96	2204	-0.03%	0.30%		0.26%	-0.03%		
3113130	2204)	-0.0376]	0.50 %		0.20%	70.0070		

Table A2-4: PanAmSat-Hughes Merger

Date	Obs	Predicted CQ_DR	Residuals	5% significant	CQ_DR	SP_DR	PAS&Hughes merger	Event
9/20/96	2205	0.39%	0.91%		1.30%	0.51%	1	Hughes Electronics Corp. and PanAmSat Corp. announce agreement to merge satellite businesses into new public company.
9/23/96	2206	-0.13%	-0.13%		-0.26%	-0.15%		
9/24/96	2207	0.36%	0.16%		0.52%	0.47%		The second section of the second seco
9/25/96	2208	-0.08%	-1.45%		-1.54%	-0.09%		
12/2/96	2255	-0.26%	2.43%		2.17%	-0.31%		
12/3/96	2256	0.03%	-0.74%		-0.71%	0.05%		
12/4/96	2257	-1.19%	0.00%		-1.19%	-1.49%		
12/5/96	2258	0.17%	0.79%		0.96%	0.23%	1	No Further Antitrust Approvals Necessary to Complete Merger GREENWICH, Conn., December 6, 1996. Yesterday the Antitrust Division of the U.S. Department of Justice permitted a key 30-day review period to pass without taking action to halt the merger or imp
12/6/96	2259	-1.02%	-3.51%	*	-4.52%	-1.27%		
12/9/96	2260	0.96%	-0.21%		0.75%	1.22%		
12/10/96	2261	0.58%	0.16%		0.74%	0.74%		
					** *****			
4/1/97	2337	-0.91%	-0.89%		-1.80%	-1.13%		
4/2/97	2338	-0.30%	-2.06%		-2.36%	-0.36%		
4/3/97	2339	-0.63%	-1.78%		-2.41%	-0.78%		
4/4/97	2340	0.33%	-1.43%		-1.10%	0.43%	1	FCC Approval Leaves Only SEC Clearance, Shareholder Vote For Merger Completion. FCC approves e transfer of orbital slot licenses from PanAmSat and Galaxy to the new, combined PanAmSat Corporation.
4/7/97	2341	1.08%	3.64%	*	4.72%	1.38%		
4/8/97	2342	0.09%	2.83%	*	2.92%	0.12%		
4/9/97	2343	0.20%	-1.75%		-1.55%	0.27%		
4/14/97	2346	-1.00%	-0.29%		-1.29%	-1.25%		
4/15/97	2347	1.12%	0.18%		1.31%	1.43%		
4/16/97	2348	0.89%	0.14%		1.03%	1.14%		
4/17/97	2349	0.70%	-0.95%		-0.26%	0.89%	1	The SEC has declared the registration statement (of the Hughes-PanAmSat merger) effective. PanAmSat Corporation announced today that it will mail to proxy detailing the planned PanAmSat and Galaxy Satellite division of Hughes to its shareholders.
4/18/97	2350	0.02%	-1.82%		-1.79%	0.04%	·	
4/21/97	2351	-0.32%	-3.07%	*	-3.39%	-0.39%		Comsat reported today a net loss of \$5.3m, or 11 cents pershare, for 1097, versus net income of \$9.3m, or 19 cents per shre, for same period last year. However, all of the losses came from Ascent Entertainment Group, which the company plans to divest in
4/22/97	2352	0.55%	-3.79%	*	-3.24%	0.71%		
4/23/97	2353	0.79%	-1.35%		-0.56%	1.01%		
5/5/97	2361	1.49%	0.56%		2.05%	1.90%		
5/6/97	2362	0.71%	1.30%	1	2.01%	0.91%		

Table A2-4: PanAmSat-Hughes Merger

D-4-					CO DD	en no	PAS&Hughes	E
Date	Obs	Predicted CQ_DR	Residuals	5% significant	CQ_DR	SP_DR	merger	Event
5/7/97	2363	-0.71%	0.99%		0.28%	-0.88%		
5/8/97	2364	-0.09%	0.09%		0.00%	-0.09%	1	PanAmSat shareholders approve merger.
5/9/97	2365	0.11%	0.17%		0.28%	0.15%		
5/12/97	2386	0.95%	-0.67%		0.28%	1.21%		
5/13 /9 7	2367	0.19%	-1.59%		-1.40%	0.26%		
5/14/97	2368	0.31%	-1.16%		-0.85%	0.41%		
5/15/97	2369	0.05%	-2.05%		-2.00%	0.08%		
5/16/97	2370	-0.24%	-0.05%		-0.29%	-0.28%	4	PanAmSat and the Galaxy® satellite services business of Hughes Communications, Inc officially merged / Comsat board approves a tax-free spin off of Ascent Entertainment / US Court of Appeals affirms lower court's dismissal of PAS's anti-trust lewsuit.
5/19/97	2371	-0.31%	0.60%		0.29%	-0.37%		
5/20/97	2372	0.16%	-0.74%		-0.58%	0.22%		
5/21/97	2373	0.64%	0.24%		0.88%	0.82%		